

Integrated Meeting and Conference Call Schedule

November 28, 2007

Florida Keys RAD (FDEP)	Everglades West Coast TMDL (FDEP)	Caloosahatchee River TMDL Meeting (FDEP)	Caloosahatchee Telephone Conference 9:30 AM (Joint)	Caloosahatchee NEEPP Research & Monitoring (SFWMD)	Caloosahatchee NEEPP Watershed Plan (SFWMD)	Charlotte Harbor NEP TAC Meetings (CHNEP)	St. Lucie Basin TMDL & BMAP (FDEP)	St. Lucie NEEPP Research & Monitoring (SFWMD)	St. Lucie NEEPP Watershed Plan (SFWMD)	Lake Jesup BMAP (FDEP)	Kissimmee River KCOL- LTMP (SFWMD)
	Sept 25 PM	Sept 26 AM	Sept12	Sept 26 PM							
Oct 26	Cancelled	Oct 23 PM	Oct 10	No Meeting	Oct 19	Oct. 24 PM	Oct 25 AM	Oct 24 PM	Oct 24 PM	Oct 24	Oct 10 -11
	Cancelled	Cancelled	Nov 7	Cancelled	Nov 20 PM		Nov 9 AM (conf call)	Nov 29 AM	Nov 29	Nov 29	
	Dec 18 PM	Dec 19 AM	Dec 5	Dec 19 PM	Dec 20 AM			Dec 20		Dec 20	
2008											
	Jan 22 PM	Jan 23 AM	Jan 9	Jan 23 PM	Jan 17 AM		Jan – date TBD	Jan 15	Jan 15	Jan 24	
	Feb 19 PM	Feb 20 AM	Feb 6	Feb 20 PM	Feb 21 AM	Feb 13 AM		Feb 26	Feb 26	Feb 21	
	Mar 18 PM	Mar 19 AM	Mar 5	Mar 19 PM	Mar 20 AM			Mar 25	Mar 25	Mar 20	
	April 15 PM	April 16 AM	April 2 nd	April 16 PM	Apr 17 AM	April 9 AM		Apr 22	Apr 22	April 24	
	May 20 PM	May 21 AM	May 7	May 21 PM	May 22 AM			May 27	May 27	May 29	
	June 17 PM	June 18 AM	June 4	June 18 PM	June 19 AM			June 24	June 24	June 26	
	July 15 PM	July 16 AM	July 2 nd	July 16 PM	July 17 AM	July 9		July 22	July 22	July 24	
	Aug 19 PM	Aug 20 AM	Aug 6	Aug 20 PM	Aug 21 AM			Aug 26	Aug 26	Aug 21	
	Sept 16 PM	Sept 17 AM	Sept 3	Sept 17 PM	Sep 18 AM			Sep 23	Sep 23	Sept 25	
	Oct 14 PM	Oct 15 AM	Oct 1			Oct 22				Oct 23	
	Nov 18 PM	Nov 19 AM	Nov 5							No Meeting	
	Dec 16 PM	Dec 17 AM	Dec 3							Dec 11	
2009											
	Jan 20 PM	Jan 23 AM	Jan 7							Jan 22	
	Feb 17 PM	Feb 20 AM	Feb 4							Feb 26	
	Mar 17 PM	Mar 19 AM	Mar 4							Mar 26	

RWPP Research and Water Quality Monitoring Plan Outline

**Strawman Draft
11/27/2007**

Chapter

1 Introduction

- 1.1 Description of Enabling Legislation
- 1.2 Document Structure

2 Goals and Objectives of Monitoring and Research

3 The River and Its Watershed: Status, Trends and Targets in Hydrology, Water Quality and Aquatic Habitat

- 3.1 Delineation of Study Area
 - 3.1.1 The River and Estuary
 - 3.1.2 The Watershed and Lake Okeechobee Connection
- 3.2 Watershed Hydrology and Loading
 - 3.2.1 Hydrology
 - 3.2.2 Water Quality Status and Trend: Nutrient and DO
 - 3.2.3 Nutrient Loading
- 3.3 River/Estuary Salinity, Water Quality and the Related Aquatic Habitats
 - 3.3.1 Salinity: Range and Stratification, Flow Correlation
 - 3.3.2 Water Quality Status and Trend: DO, Nutrients, and Chlorophyll-a, Nutrient Susceptibility Index
 - 3.3.3 Aquatic Habitats
 - 3.3.3.1 Submersed Aquatic Vegetation: Distribution, Relationship with Water Quality
 - 3.3.3.2 Oysters: Distribution, Relationship with Water Quality
- 3.4 Salinity Envelopes and Freshwater Inflow Targets
 - 3.4.1 Technical Basis
 - 3.4.2 Envelopes and Targets
- 3.5 Influence of Lake Okeechobee and Watershed Discharge on Freshwater Inflow to Estuaries

4 Monitoring on a Regional Scale

- 4.1 Definition of Regional Scale Monitoring
- 4.2 Nutrient Loading and Water Quality Monitoring Program
 - 4.2.1 Existing Stations: Parameters, Frequency and Duration
- 4.3 Freshwater Inflows Monitoring Program
 - 4.3.1 Existing Stations: Frequency and Duration
- 4.4 Aquatic Habitat Monitoring Program
 - 4.4.1 Existing Stations: Frequency and Duration
- 4.5 Power Analysis
 - 4.5.1 Water Quality Example

4.5.2 Submersed Aquatic Vegetation Example

5 **Monitoring on a Project Scale**

- 5.1 Definition of Project Level Monitoring
- 5.2 Projects Considered in the Plan (*these are examples at this point*)
 - 5.2.1 Reservoirs and STAs
 - 5.2.2 BMPs
 - 5.2.3 Stormwater Retrofit
- 5.3 Monitoring for Load Reduction- removal efficiency, permit requirements

6 **Research for Adaptive Management**

- 6.1 Purpose of Research
 - 6.1.1 Reduce Uncertainty in Project Design and Function
 - 6.1.2 Reduce Uncertainty of River Watershed Protection Plan Benefits at the Regional Scale
- 6.2 Status of Current Research Related to Water Quality
 - 6.2.1 Benthic Flux
 - 6.2.2 Estuarine Turbidity Maxima
 - 6.2.3 Organic Nitrogen
- 6.3 Status of Current Assessment Tools
 - 6.3.1 Watershed Model
 - 6.3.2 Estuarine Hydrodynamic/Salinity and Water Quality Model
 - 6.3.3 Ecological Model

7 **Recommendations**

- 7.1 The Recommendations
 - 7.1.1 Monitoring Needs on the Regional Scale
 - 7.1.1.1. Hydrology
 - 7.1.1.2. Water Quality
 - 7.1.1.3. Related Aquatic Habitat
 - 7.1.2 Monitoring Needs on the Project Level
 - 7.1.3 Research for Adaptive Management
 - 7.1.3.1. Limiting Nutrient
 - 7.1.3.2. Groundwater and Benthic Flux
 - 7.1.3.3. Fate and transport of organic nitrogen
 - 7.1.3.4. Establish performance measures for aquatic habitats
 - 7.1.3.5. Modeling tools for evaluation/assessment
 - 7.1.3.6. Hot spot identification
 - 7.1.4 Model Tool Needs
- 7.2 Plan Implementation

Research and Monitoring Plan
Initiate SLRW Research and Water Quality Monitoring Plan

Task 1 –Identify Goals and Objectives of the Plan – 11/07

Task 2 – Establish Status, Trends and Targets in Hydrology, Water Quality and Aquatic Habitat
- 11/07 - 01/08

Task 2.1 Delineation of Study Area

Task 2.2 Watershed Hydrology and Loading

Task 2.3 River/estuary salinity, water quality and the related aquatic habitats

Task 2.4 Salinity Envelopes and Freshwater Inflow Targets

Task 2.5 Influence of Lake Okeechobee and Watershed Discharge on Delivery to SLRE

Task 3 –Monitoring on a Regional Scale – 12/07 - 03/08

Task 3.1 Define Regional Scale Monitoring

Task 3.2 Compile and Evaluate Existing Water Quality Monitoring Program

Task 3.3 Compile and Evaluate Existing Freshwater Inflow Monitoring Program

Task 3.4 Compile and Evaluate Existing Aquatic Habitat Monitoring Program

Task 3.5 Conduct Power Analysis- Water Quality and SAV Example

Task 4 –Monitoring on a Project Scale – 01/08 - 04/08

Task 4.1 Define Project Level Monitoring

Task 4.2 Summarize Projects Considered in the Plan

Task 5 –Research for Adaptive Management – 03/08 - 04/08

Task 5.1 Identify Research Purpose

Task 5.2 Summarize Status of Current Research Related to Water Quality

Task 5.3 Summarize Status of Current Assessment Tools

Task 6- Develop Recommendations – 05/08 – 06/08

Task 7- Internal and External Working Team Meetings – 09/07 - 09/08

Task 8- Compilation of Draft Research and Water Quality Monitoring Plan – 07/08

Task 9- Final Research and Water Quality Monitoring Plan - 08/08 – 09/08

Task 9.1 Incorporate Final Plan into the River Protection Plan

DRAFT

		Qtr 1 FY08			Qtr 2 FY08			Qtr 3 FY08			Qtr 4 FY08			Qtr 1 FY09			Qtr 2 FY09	
	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09
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